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DAVID L. SIERADZKI
COUNSEL
DIRECT DIAL (202) 637-6462
INTERNET DS0@DC2.HHLAW.COM

COLUMBIA SQUARE

555 THIRTEENTH STREET, NW

WASHINGTON, DC 20004-1109

TEL (202) 637-5600

FAX (202) 637-5910

July 24, 1998

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Magalie Roman Salas Secretary Federal Communications Commission 1919 M St., N.W. Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION
OF THE SECRETARY

Re: Federal-State Joint Board on Universal Service, CC Docket No. 96-45:

Western Wireless Corp. Petition for Preemption of Kansas Statutes and Rules

Dear Ms. Salas:

Gene DeJordy, Executive Director of Regulatory Affairs, Western Wireless Corp., and Michele Farquhar, Ronnie London, and the undersigned of Hogan & Hartson, L.L.P., counsel for Western Wireless Corp., made *ex parte* presentations today regarding the proceedings referred to above to John Nakahata, Chief of Staff, Office of Chairman Kennard and Tom Power, Legal Advisor, Office of Chairman Kennard; and to Paul Misener, Senior Legal Counsel, Office of Commissioner Furchtgott-Roth. Brian Fontes of the Cellular Telecommunications Industry Association also attended the presentation to Mr. Misener. I am enclosing a copy of the materials used in connection with these presentations.

Respectfully submitted,

David L. Sieradzki

Counsel for Western Wireless Corp.

David Suradipi

Enclosures

cc:

John Nakahata Tom Power Paul Misener No. of Copies rec'd_ List ABCDE

Universal Service

The Wireless Solution

July, 1998

Universal Service

The Wireless Solution

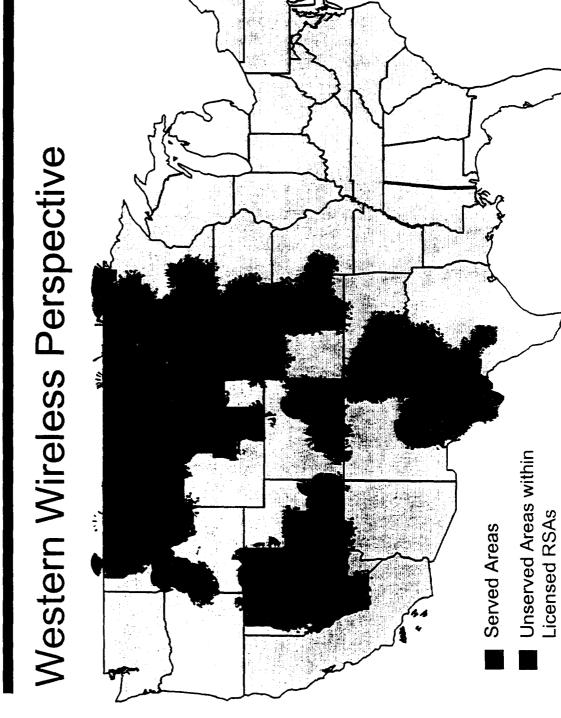
- Overview
- Universal Service Goals
- Wireless Universal Services
- Lower USF Costs
- Public Interest Benefits of Wireless Solution
- Challenges and Obstacles



Wireless Meets Universal Service Goal

- Ability to Serve Consumers in Rural and Urban Areas
- Public Interest Benefits of a Competitively-Neutral Universal System (Federal and State)
- Ability to Provide Required Universal Services
 Plus Additional Services
- Lower Costs and Lower Subsidies





Wireless Advantages Over Wireline Systems in Providing Service to Rural Areas

- More Extensive Service Availability
- More Service Options
- Mobility which is Vital
- Lower Costs



Wireless Provides Public Interest Benefits

- Greater Competition, Particularly in Rural Areas
- Rapid Delivery of Additional Service Options to the Public
- Bring Service to Unserved Areas
- Lower Subsidies at Federal and State Level



Remaining Challenges/Obstacles

- Establishing and Maintaining Competitive-Neutrality Nationally
- Establishing Competitive Universal Service System in Territories Served by Rural (Independent) Telcos
- Establishing State Universal Service Rules that do not <u>Disadvantage</u> Wireless Carriers



Universal Service Goals

How Wireless Carriers can Meet this Goal Requirement Provide Services in Competition with Competitively-Neutral Wireline Carriers - 8 Licenses per Market Contribute to Fund Universal Service All Americans Serve Consumers in Areas that are Not Served, Not Adequately Served, or Not Cost-Effectively Served by Wireline Carriers **Affordable** Provide More Services at Lower Cost and/or **Lower Subsidy** Provide the Supported Telecommunications **Telecommunication** Services Plus Additional Services Services



Prerequisites for Wireless
Universal Service Provider Carriers?

Common Carrier Yes

Offer Supported Services throughout the Designated Service Area Yes

Advertise the Availability of
Supported Services
Yes

Designation as an Eligible
Telecommunications Carrier
by State
Yes



Landline vs. Wireless

Services and Features	<u>Landline</u>	<u>Wireless</u>
Voice Grade Service	yes	yes
DTMF Signaling or Equivalent	yes	yes
Single Party Service	some, not all	yes
Access to Emergency Services	yes	yes
Access to Operator Services	yes	yes
Access to Interexchange Services	s yes	yes
Access to Directory Assistance	yes	yes
Lifeline/Link-Up Toll Limiting Services	yes	yes
Data/Internet Capability	yes	yes



Capabilities that Distinguish Wireless Carriers

- More Extensive Service Availability
- More Service Options
- Expanded Local Calling Areas
- Mobility
- High Quality and Reliability



More Extensive Service Availability

 Service Availability Depends on Built Facilities in Wireless or Wired Service

Wireless: 97% of population have access to wireless services

 Landline: 93.8% of households subscribe to landline telephone service with many households unable to receive service; e.g., Reese and Antelope Valley,

Nevada



Examples of Wireless' Extensive Coverage in Rural States

	Population Density (Pop/Sq. Mile)	Wired Penetration	Served by Wireless
Texas	64.9	91.3%	99.6%
Nevada	10.9	94.1%	98.0%
North Dakota	9.3	95.8%	98.0%
Montana	5.5	93.7%	98.0%
Wyoming	4.7	93.4%	99.0%

Source: Preliminary Statistics of Communications Common Carriers, FCC (1997 Edition); Cellular CGSA FCC Filings.



Wireless State-of-the-Art Equipment Enables Carriers to Offer More Service Options

Network

<u>Infrastructure</u> <u>Wireline</u> <u>Wireless</u>

Switching Some Electro/Mechanical State-of-the-Art

Digital

Local Loops Some Multi-Party Lines

Some Older Limited

Capability Loops

Dynamic Assignment Analog and Digital



Wireless Carriers are Capable of Providing Services Not Offered by Some Telcos Serving Rural Areas

Network Services Offered	OPASTCO <u>Wireline</u>	Western <u>Wireless</u> ***
Voicemail	47.5%**	100%
EAS	39.1%*	100%
TouchTone	64.6%*	100%
Single Line Service	96.5%*	100%
911 Service	54.4%*	100%

^{*}Keeping Rural America Connected: Costs and Rates in the Competitive Era, OPASTCO (1994)

^{***}Western Wireless services which we believe are representative of all wireless carriers



^{**}OPASTCO Internet Site: http://www.opastco.org/PRODSRVC.html

Wireless Carriers Utilize Extended Local Calling Areas (LCAs)

	Wireline	Western Wireless
Montana LCAs	Numerous*	1
North Dakota LCAs	Numerous	1

^{*} In Montana, for example, U S West has 16 extended LCAs and there are 18 independent LECs with their own LCAs.



- Mobility is Vital in Sparsely Populated Areas
 - Long Distances Between Towns
 - Low Density of Public Pay Phones
 - Rural Commerce Depends More on Mobility
- Access to Emergency Services is More Important



Cost is Inversely Related to Density

<u>State</u>	Population Density (Per Sq. Mile)	Wireline Subsidy for Resident <u>Lines</u> *	Wireline Subsidy Per Population	Wireline Subsidy for <u>All Lines</u> *	Wireline Subsidy Per Population
North Dakota	9.3	\$118.0	\$185	\$152.9	\$239
Montana	5.5	\$149.0	\$186	\$183.1	\$229
Nevada	10.9	\$42.3	\$35	\$51.6	\$43
Wyoming	4.7	\$51.7	\$114	\$60.3	\$133
Texas	64.9	\$400.7	\$24	\$466.0	\$27
All States	70.3	\$4,965.1	\$20	\$5,560.9	\$22

^{*}Subsidies, in millions, based upon results of HAI Wireline Cost Model and benchmark revenues of \$31 per month for residential lines and \$51 per month for business lines.



Wireless Cost is Substantially Lower in Rural Areas

<u>State</u>	Average	Wireless Cost	Wireline Cost
	Line Density	<u>Per Line</u> *	<u>Per Line</u>
Montana - Urban	59.04/sq. mile	\$56.31/mo.	\$22.22/mo.
Montana - Rural	5.77/sq. mile	\$92.90/mo.	\$188.84/mo.
North Dakota - Urban	41.48/sq. mile	\$58.71/mo.	\$22.74/mo.
North Dakota - Rural	3.90/sq. mile	\$77.35/mo.	\$178.21/mo.



^{*} Based upon preliminary HAI wireless cost model results.

Potential Subsidy Savings Using Wireless Technology

Estimated Subsidy for Wireline Carriers

\$5,560,924,012

Estimated Subsidy Using Wireless Technology

\$2,936,667,737

Estimated Potential Subsidy Savings (48%) *

\$2,624,256,275

^{*} The overall subsidy is based upon HAI wireline cost model and the preliminary results of the HAI wireless cost model for Montana and North Dakota and estimated for the other states



Wireless Will Greatly Reduce Subsidies

	North	
	<u>Dakota</u>	<u>Montana</u>
Wireline USF Subsidies		
Federal Share	\$29.5	\$37.3
State Share	<u>\$88.5</u>	<u>\$111.7</u>
Total	\$118.0	\$149.0
Wireless USF Subsidies		
Federal Share	\$16.7	\$18.5
State Share	<u>\$50.3</u>	<u>\$55.5</u>
Total	\$67.0	\$74.0
Total Savings with Wireless		
Technology	\$51.0	\$75.0



Public Interest Benefits of Wireless Solution

- Greater Competition Especially in Rural Areas
- Availability of Additional Services
- Rapid Delivery of Additional Services to the Public
- Bring Service to Unserved Areas
- Lower Cost of Subsidies at Federal and State Level



Public Interest Benefits of Wireless Solution

Competition Exists in the Residential Wireless Market

	# of Wireless <u>Carriers</u> *	# of Landline <u>Carriers</u>
Texas	4	1
Oklahoma	5	1
Colorado	5	1
Kansas	5	1
Nebraska	3	1
Idaho	2	1
Nevada	3	1
North Dakota	4	1
South Dakota	2	1
Montana	3	1
Wyoming	2	1
Minnesota	4	1
Missouri	4	1
New Mexico	4	1
Utah	3	¹ Y V western
22 * Number of ope	erating competing carriers.	A A wireless

Challenges and Obstacles

- Establishing and Maintaining a Competitive Universal Service System in Territories Served by Rural Telcos
- Establishing State Universal Service Rules that Do Not Disadvantage Wireless Carriers
- Maintaining a Competitively-Neutral Universal Service System that takes into Account the Unique Advantages of Wireless

